

THE INDUSTRIAL ARTS INDEX

FIFTH ANNUAL CUMULATION

SUBJECT INDEX TO A SELECTED LIST OF ENGINEERING
AND TRADE PERIODICALS FOR 1917

EDITED BY
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The Industrial Arts Index completes its fifth volume with this annual number. It began with a small list of about 45 magazines in 1913, the indexing and proofreading being done between the issues of the Cumulative Book Index. It was counted as knitting work—or whatever term may be used to denote the casual task now that knitting has become an absorbing occupation. The first annual number was a volume of 326 pages. The second annual volume contained over a hundred more pages than the first, new magazines having been added. The 1916 annual grew to 530 pages. The indexing was done by the editor of the Cumulative Book Index. Miss Louise Teich assumed the duties of general manager and guardian of the publication, seeing that it kept to the straight and narrow path of accuracy and consistency and common sense. This she has done from the beginning except for some months in 1917 when Mrs. Neltje Shimer, editor of the Agricultural Index, undertook the task temporarily as an accommodation. In the summer of 1915 Miss Helen Craig came from the United Engineering Societies Library to assist in the indexing of the magazines. After her resignation in May, 1917, Miss Charlotte Noyes, who had been in the library of the General Electric Company, Schenectady, and later in the Reference catalog division of the New York Public Library, undertook the work and has been doing an increasingly large proportion of the indexing until now she is carrying it alone. Miss May Carpenter and Miss Emily Anderson also deserve grateful mention for faithful and accurate work in preparation of copy and other processes.

The magazines to be indexed were selected according to our usual plan, by a vote of subscribers. It must be admitted, however, that three magazines that were elected were not included because of the publishers' refusal to send copies for indexing. It has required patience and a good deal of correspondence to persuade the publishers that we are doing them a service in indexing their periodicals. We regret that Metal Industry is not indexed in this number, the publishers having

taken us from their mailing list; and altho we have succeeded in overcoming their objections the back numbers of the periodical could not be procured in time for indexing in this volume. Several late numbers of Automobile are also lacking.

There have been constant appeals for more frequent issues and the indexing of more magazines, and the publishers of the Index have been perplexed as to how to give subscribers what they need and still put the publication on a paying basis. Our policy has been to keep up the quality of the work, that is to index thoroughly and to give great care to the accuracy of the references, rather than to extend the work by adding trade papers and printing more frequently. As to the indexing, also, it is difficult to have a consistent index at best, but it is almost impossible when subject headings are assigned by different persons. It makes for better service, therefore, if the publication is kept within a limit which makes it possible for one person to do all or practically all of the indexing. On the whole, it seems more serviceable to index the leading magazines carefully than to index a larger number superficially. The large libraries would no doubt prefer that a greater number of magazines should be included and only the longer articles listed, but the small library after paying out of its meager funds for the subscription to a periodical and binding and shelving naturally wants its contents completely indexed and has a right to expect it. The leading magazines moreover usually abstract the most important articles that have appeared in their several fields, including the foreign ones. The indexing of these abstracts therefore gives a key to all the important literature published in both American and foreign magazines on the subjects which the Industrial Arts Index covers. The publishers however are not content to rest without an effort to improve the service. It has seemed best for reasons already mentioned or implied to increase the frequency of issue rather than to increase materially at present the size of the Index. It is purposed, therefore, beginning with 1918, to publish the Industrial Arts Index ten times a year instead of five times and to cumulate according to the plan of the Readers' Guide. Any expression of opinion by our subscribers as to the usefulness of this plan will be carefully considered. It is purposed also to cumulate the annual volumes from 1913 to 1918 in a six-year cumulation to be published in 1919.

M. E. P.

NOTES AND ANNOUNCEMENTS

Notes and Announcements

With the beginning of the new year, the American Lumberman will be added to the list of periodicals included in the Index. This is added in response to numerous requests from subscribers. The periodical is a weekly, published in Chicago. The subscription price is \$4. A considerable part of the magazine is devoted to trade notes, brief accounts of association affairs, and news of temporary interest, but there are also long articles of lasting value. The number at hand contains the following articles: "Our Friend, the Building Loan Association," "Knowing Costs in a Planing Mill," "Evolution of Hardwoods," "Glazed Sash Costs," "Protecting the Bottoms of Wooden Ships."

Edward N. Hurley, vice-chairman of the Federal trade commission, has this to say on trade journals: "American business men do not realize the value which trade journals and technical magazines may be to them in increasing the efficiency of their factories and in giving them a broad and comprehensive view of their business. Many foreign manufacturers contribute articles to these journals on phases of the business with which they are most familiar. Such articles are bound to be helpful and have a constructive effect. Our trade journals and technical papers are the best in the world and they should be encouraged and supported by our business men. Copies should be placed where employees can see them and they should be urged to read and study them. These papers are preaching the gospel of sound business on practical lines and are helpful not only to business but to the country as a whole."

The Highway Contractor and Road Builder, a monthly publication of the New York State Road Builders' Association has been purchased by the E. L. Powers Co. and merged with Good Roads. The Highway Contractor was the official bulletin of the New York State Road Builders' Association, the Connecticut General Contractors Association, the Massachusetts Highway Association and the New Hampshire Good Roads Association. The news of these societies will now appear in Good Roads on the second Saturday of each month and that issue may be subscribed for separately. There has been no change in the policies or in the character of the publication.

In order to provide subscribers with the very latest information on current events in the gas field, the American Gas Engineering Journal has reduced the time elapsing between the closing of the forms and the mailing of the copies to twenty-four hours. A new department, "Merchandising gas" is to contain articles on the commercial side of the industry, written by men actively engaged in selling gas.

The United Engineering Society has added to its collection on engineering history a valuable copy of the "Encyclopédie, ou Dictionnaire Raisonné des Sciences, des Arts et des Métiers." This is the third edition published in Geneva, 1777-79.

In the November number of *Factory* is a brief editorial with the heading, "Books for Industrial Soldiers." It is suggested that at this time, when the value of books is being emphasized by the campaign for army libraries, it may be well to expand the factory library and advertise it more widely.

Bibliographies

A "List of references on business libraries and the relation of the business library to the business man" has been compiled by H. H. B. Meyer, Chief Bibliographer at the Library of Congress. It was published in the November number of *Special Libraries*. The list is alphabetically arranged and contains 69 references to periodical articles, bulletins and books.

A selected bibliography of articles on titanium, in German, French, English and American periodicals, appeared in the *Journal of the Franklin Institute* for December.

In the *Iron Age* for November 1, is a long bibliography on the subject of plastic metal deformation, extrusion, rolling, punching, shearing and other processes in the mechanical working of metals. The list was compiled by E. C. Buck. It is arranged chronologically, covering the years 1835-1917. The periodicals and books referred to are French, English, German, Italian and American.

In *Metallurgical and Chemical Engineering* for December 1, is a bibliography by Mr. Buck on the "Manufacture of ferromanganese," the references covering English, German, American and French periodicals, books, and patents for the years 1877-1917.

Book Notes

"Practical Road Building," by Charles E. Foote, has been endorsed by the National Highways Association and the American Automobile Association. The first chapter is a sketch of road history. Others treat of road location, grades, drainage, traffic and finance. In part 2, each chapter is devoted to the description of some one form of road construction.

The second volume of the "Mechanical Equipment of Buildings," by Louis A. Harding and Arthur C. Willard, has now appeared. This volume deals with power plants and refrigeration. For the sake of convenience and completeness there have been reprinted here

NOTES AND ANNOUNCEMENTS

certain chapters from volume I, which dealt with heating and ventilation theory and its practical application. The index includes references to authorities quoted in the text.

"Applied Motion Study," by Frank B. and Lillian M. Gilbreth aims to show where and how motion study is useful, and the results of its use. The authors consider motion study a means to permanent and practical waste elimination which will result in the betterment of industrial conditions and make us a nation prepared for emergencies.

The Ronald Press Co. has announced the appearance on December 27, of "1918 Income Tax Procedure," by Robert H. Mont-

gomery. This book will cover the income tax, corporation stock tax and excess profits tax, explaining complicated legal points and giving instructions for preparing returns.

A second edition of John Lee Mahin's "Advertising—Selling the Consumer," has been published for the Associated Advertising Clubs of the World. The book grew out of lectures, notes made during class room talks, and editorials written for the Chicago Herald. At the end of each chapter is a list of references, with comments. The subject is not treated from the theoretical side only. Accounts of personal experiences and reproductions of actual advertisements make it of practical value.

List of Periodicals Indexed

- 72.205** Am Arch—The American Architect. \$10; single numbers 25c. Architectural & Building Press, Inc., 243 W 39th St, New York.
- 5.51** Am Chem Soc J—Journal of the American Chemical Society. \$6. Charles L. Parsons, sec., Box 505, Washington, D. C.
- 3.258** Am Gas Eng J—American Gas Engineering Journal. \$3; single numbers 10c. American Gas Light Journal, Inc., 42 Pine St, New York.
Formerly American Gas Light Journal.
- Am Gas Inst Pro—Proceedings of the American Gas Institute, tenth and eleventh annual meetings, 1915-1916. ea \$7.50 to libraries. American Gas Institute, 29 W 39th St, New York.
- 3.258** Am Gas Light J—See Am Gas Eng J
- 0.212** Am Ind—American Industries. \$1; single numbers 10c. National Manufacturers Co., 30 Church St, New York.
- 2.208** Am Inst Arch J—Journal of the American Institute of Architects. \$3.50; single numbers 50c. American Institute of Architects, The Octagon, Washington, D. C.
- 6.255** Am Inst E E Pro—American Institute of Electrical Engineers. Proceedings. \$10; single numbers \$1. F. L. Hutchinson, sec., 33 W 39th St, New York.
- 6.54** Am Inst Min E Bul—Bulletin of the American Institute of Mining Engineers. subs. \$12; single numbers \$1; to members, public libraries, and educational institutions, \$5; single numbers 50c. B. Stoughton, sec., 29 W 39th St, New York.
- 2.41** Am Mach—American Machinist. \$4; single numbers 15c. McGraw-Hill Pub. Co., 10th Av at 36th St, New York.
- 4.209** Am Soc Heat & V E—Transactions of the American Society of Heating and Ventilating Engineers. American Society of Heating and Ventilating Engineers, 29 W 39th St, New York.
- 4.207** Am Soc M E J—Journal of the American Society of Mechanical Engineers. \$3; single numbers 35c. American Society of Mechanical Engineers, 29 W 39th St, New York.
- 2.100** Am Water Works Assn J—Journal of the American Water Works Association. American Water Works Assn., 2419 Greenmount Av, Baltimore, Md.
- 2.210** Arch & Bldg—Architecture and Building. \$2.50; single numbers 25c. William T. Comstock Co., 23 Warren St, New York.
- 0.273** Arch Rec—Architectural Record. \$3; single numbers 35c. Architectural Record Co., 115 W 40th St, New York.
- 1.247** Automobile—Automobile and Automotive Industries. \$3; single numbers 10c. Class Journal Co., 231 W 39th St, New York.
- 0.230** Bldg Age—Building Age. \$2; single numbers 20c. Architectural and Building Press, Inc., 243 W 39th St, New York.
- 5.307** Boston Soc C E J—Journal of the Boston Society of Civil Engineers. \$4 (ten numbers); single numbers 50c. Boston Society of Civil Engineers, 715 Tremont Temple, Boston.
- Coal Age—Coal Age. \$3; single numbers 10c. McGraw-Hill Pub. Co., 10th Av at 36th St, New York.
Colliery consolidated with Coal Age.
- Colliery. See Coal Age.
- 2.379** Concrete—Concrete. \$2; single numbers 20c. Concrete-Cement Age Pub. Co., Telegraph Bldg., Detroit, Mich.
Formerly published as Concrete-Cement Age.
- 1.231** Dom Eng—Domestic Engineering. \$2; single numbers 10c. Domestic Engineering Co., 407 S Dearborn St, Chicago.
- Econ Geol—Economic Geology. \$3.50; single numbers 60c. Economic Geology Pub. Co., 41 North Queen St, Lancaster, Pa.
- Elec Ry J—Electric Railway Journal. \$3; single numbers 10c. McGraw-Hill Pub. Co., 10th Av at 36th St, New York.
- Elec R—Electrical Review. \$5; single numbers 15c. Electrical Review Pub. Co., 515 Monadnock Blk., Chicago.
Formerly Electrical Review and Western Electrician.
- Elec R & W Elec'n. See Elec R
- Elec W—Electrical World. \$3 single numbers 10c. McGraw-Hill Pub. Co., 10th Av at 36th St, New York.
- Engineer—Engineer. Thick paper ed £2 9s 6d; Canadian subs £2 5s; thin paper ed £2 5s; Canadian subs £2 6d. Engineer, 33 Norfolk St, Strand, London, W. C. 2.
- Eng & Contr—Engineering and Contracting. \$3. Engineering and Contracting Pub. Co., 608 S Dearborn St, Chicago.
- Eng & Min J—Engineering and Mining Journal. \$5; single numbers 15c. McGraw-Hill Pub. Co., 10th Av at 36th St, New York.
- Eng M—Engineering Magazine. See Industrial Management.
- Eng N—Engineering News-Record. \$5; single numbers 15c. McGraw-Hill Pub. Co., 10th Av at 36th St, New York.
Engineering News consolidated with Engineering Record beginning April 5.
- Eng Rec—Engineering Record. \$5; single numbers 15c. McGraw Pub. Co., 239 W 39th St, New York.
Consolidated with Engineering News beginning April 5.
- Eng Soc W Pa—Proceedings of the Engineers' Society of Western Pennsylvania. \$5; single numbers 50c. Engineers' Society of Western Pennsylvania, 568 Union Arcade Building, Pittsburgh, Pa.
- Factory—Factory. \$3; single numbers 25c. A. W. Shaw Co., Wabash Av & Madison St, Chicago.
- Foundry—Foundry. \$1; single numbers 15c. Penton Pub. Co., Penton Bldg., Cleveland, O.
- Gas Age—Gas Age. \$3; single numbers 20c. Progressive Age Pub. Co., 52 Vanderbilt Av, New York.
Formerly Progressive Age.
- Gen Elec R—General Electric Review. \$2; single numbers 20c. General Electric Co., Schenectady, N. Y.
- Good Roads n s—Good Roads new series. \$3; single numbers 10c. E. L. Powers Co., 150 Nassau St, New York.
- Heat & Ven—Heating and Ventilating Magazine. \$1; single numbers 10c. Heating & Ventilating Magazine Co., 1123 Broadway, New York.
- Horseless Age—Horseless Age. \$2; single numbers 10c. Horseless Age Co., 95 Madison Av, New York.
- Ill U Eng Exp Sta Bul—Illinois University Engineering Experiment Station. Bulletin. Univ. of Ill., Urbana.
- Illum Engr—Illuminating Engineer. 10s 6d; single numbers 1s. Illuminating Engineering Pub. Co., 32 Victoria St, London, S. W. 1.
- Illum Eng Soc—Transactions of the Illuminating Engineering Society. \$5; single numbers 75c. Illuminating Engineering Soc., 29 W 39th St, New York.
- Ind Management—Industrial Management. \$3; single numbers 25c. Industrial Management, 6 E 39th St, New York.
Formerly Engineering Magazine.

LIST OF PERIODICALS INDEXED

- Inland Ptr**—Inland Printer. \$3; single numbers 30c. Inland Printer Co., 632 Sherman St, Chicago.
- Inst E E J**—Journal of the Institution of Electrical Engineers. single numbers 7s. E. & F. N. Spon, Ltd., 57 Haymarket, London, S. W. 1.; Spon & Chamberlain, 123 Liberty St, New York.
- The Institution premises have been taken over by H. M. Government and the temporary offices are at 1, Albemarle Street, London, W. 1.
- Published monthly since March 1, 1916. The last fortnightly part (no. 257) was dated 1 March, 1916, price 3s 6d.
- Int Marine Eng**—International Marine Engineering. \$2. Aldrich Pub. Co., Printing Crafts Bldg., 461 8th Av, New York.
- Iron Age**—Iron Age. \$5; single numbers 20c. Iron Age Pub. Co., 239 W 39th St, New York.
- Iron Tr R**—Iron Trade Review. \$4; single numbers 15c. Penton Pub. Co., Penton Bldg., Cleveland, O.
- J Account**—Journal of Accountancy. \$3; single numbers 30c. Ronald Press Co., 20 Vesey St, New York.
- J Fr Inst**—Journal of the Franklin Institute. \$5; single numbers 50c. Franklin Institute, Philadelphia.
- J Ind & Eng Chem**—Journal of Industrial and Engineering Chemistry. \$6; single numbers 60c. American Chemical Society, Easton, Pa.
- Locomotive**—Locomotive. 50c; single numbers gratis; recent bound volumes \$1. Hartford Steam Boiler Inspection & Insurance Co., Hartford, Conn.
- Mach**—Machinery. Engineering edition \$2; single numbers 20c. Industrial Press, 140 Lafayette St, New York.
- Metal Ind n s**—Metal Industry new series. \$1; single numbers 10c. Metal Industry, 99 John St, New York.
- The 1917 numbers which have not been included in this volume will be indexed in 1918.
- Metal Work**—Metal Worker, Plumber & Steam Fitter. \$2; single numbers 10c. Architectural & Building Press, Inc., 243 W 39th St, New York.
- Met & Chem Eng**—Metallurgical and Chemical Engineering. \$3; single numbers 25c. McGraw-Hill Pub Co., 10th Av at 36th St, New York.
- Munic Eng**—Municipal Engineering. \$2; single numbers 25c. Engineering Pub. Co., 702 Wulsin Bldg, Indianapolis, Ind.
- Munic J**—Municipal Journal. \$3; single numbers 10c; special numbers 25c. Municipal Journal and Engineer, Inc., 243 W 39th St, New York.
- Power**—Power. \$2; single numbers 5c. McGraw-Hill Pub. Co., 10th Av at 36th St, New York.
- Ry Age**—Railway Age Gazette. \$5; single numbers 15c. Simmons-Boardman Pub. Co., Woolworth Bldg, New York.
- Ry Mech Eng**—Railway Mechanical Engineer including the American Engineer. \$2; single numbers 20c. Simmons-Boardman Pub. Co., Woolworth Bldg., New York.
- Formerly Railway Age Gazette, Mechanical edition.
- Ry R**—Railway Review. \$4; single numbers 15c. Railway Review, 537 S Dearborn St, Chicago; 30 Church St, New York.
- Formerly Railway and Engineering Review.
- Sci Am**—Scientific American. \$4; single numbers 10c. Munn & Co., 233 Broadway, New York.
- Sci Am S**—Scientific American Supplement. \$5; single numbers 10c. Munn & Co., 233 Broadway, New York.
- Sibley J**—Sibley Journal of Engineering. \$2; single numbers 20c. Sibley College, Cornell Univ., Ithaca, N. Y.
- Stevens Ind**—Stevens Indicator. \$1.50; single numbers 50c. Stevens Institute of Technology, Hoboken, N. J.
- Textile World**—Textile World Journal. \$3 Bagnodon, Lord & Nagle Co., 461 8th Av at 34th St, New York.
- Formerly published as Textile World Record, monthly at \$2
- U S Agric Bul**—United States. Dept. of Agriculture. Bulletin. Distributed free of charge. U. S. Dept. of Agriculture, Division of Publications, Washington, D. C.
- Contributions from the Bureau of Chemistry, Forest Service and Office of Public Roads are indexed.
- U S Bur For & Dom Com**—United States. Bureau of Foreign and Domestic Commerce. Special agents series. U. S. Bureau of Foreign and Domestic Commerce, Washington, D. C.
- U S Bur For & Dom Com misc ser**—United States. Bureau of Foreign and Domestic Commerce. Miscellaneous series. U. S. Bureau of Foreign and Domestic Commerce, Washington, D. C.
- U S Bur Mines Bul**—United States. Bureau of Mines. Bulletin. Distributed free of charge. U. S. Bureau of Mines, Washington, D. C.
- U S Bur Mines Circ**—United States. Bureau of Mines. Miners' circular. U. S. Bureau of Mines, Washington, D. C.
- U S Bur Mines Tech Pa**—United States. Bureau of Mines. Technical paper. U. S. Bureau of Mines, Washington, D. C.
- U S Bur Stand Bul**—United States. Bureau of Standards. Bulletin. Gratis to educational and scientific institutions and to government depositories. U. S. Bureau of Standards, Washington, D. C.
- Sold to individuals by the Superintendent of Documents. \$1; single numbers 25c.
- U S Bur Stand Circ**—United States. Bureau of Standards. Circular. U. S. Bureau of Standards, Washington, D. C.
- U S Bur Stand Tech Pa**—United States. Bureau of Standards. Technologic papers. U. S. Bureau of Standards, Washington, D. C.
- U S Nat Advisory Com**—United States National Advisory Committee for Aeronautics. 2d annual report. National Advisory Committee for Aeronautics; \$1 Supt. of Doc.
- U S Sp Cons Rep**—United States. Special consular reports. U. S. Bureau of Foreign and Domestic Commerce, Washington, D. C.
- W Soc E J**—Journal of the Western Society of Engineers. \$3 (ten numbers); single numbers 50c. Western Society of Engineers, 1735 Monadnock Blk, Chicago.

Explanations

Book reviews in the Electrical World, Engineering News, and Engineering Record are indexed in the Book Review Digest.

The abbreviations used are bibliog bibliography; cond condensed; cont continued; diag diagram; ill illustrated; por portrait; tr translated or translation or translator. A colon after an initial designates the most usual given name, as A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederick; G: George; H: Henry; I: Isaac; J: John; L: Louis; N: Nicholas; P: Peter; R: Richard; S: Samuel; T: Thomas; V: Victor; W: William.

List of Occasional Pamphlets Indexed

Bureau of railway economics.

Typewritten articles.

List of references to books and articles on the Adamson law of September, 1916

List of references relating to the eight-hour working day and to limitations of working hours in the United States with special reference to railway labor.

Miscellaneous series.

28. Railway trainmen's earnings. 1916.

United States. Bureau of Foreign and Domestic Commerce.

Tariff series.

35. Commercial travelers in Latin America.

L. Domeratzky.

36. Customs tariff of Chile. L. Domeratzky.

United States. Bureau of Labor Statistics.

Bulletins.

204. Street railway employment in the United States.

216. Accidents and accident prevention in machine building. L. W. Chaney and H. S. Hanna.

United States. Department of Agriculture.

Circulars.

74. State highway mileage and expenditures for the calendar year 1916.

United States. Department of Agriculture.

Farmers' bulletins.

711. The care and improvement of the wood lot. C. R. Tillotson.

788. The windbreak as a farm asset. C. G. Bates.

805. Drainage of irrigated farms. R. A. Hart.

808. How to select foods. C. L. Hunt and H. W. Atwater.

861. Removal of stains from clothing and other textiles. H. I. Lang and A. H. Whittelsey.

871. Fresh fruits and vegetables as conservers of other staple foods. C. L. Hunt.

881. Preservation of vegetables by fermentation and salting. L. A. Round and H. L. Lang.

Reports.

114. Some public and economic aspects of the lumber industry. W. B. Greeley.

United States. Federal trade commission.

Report on the price of gasoline in 1915.

Report on the beet sugar industry in the United States.

Report on the news-print paper industry.

University of Texas. Bulletin.

1722. Rustler Springs sulphur deposits
E. L. Porch, Jr.

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A Cumulative Index to Engineering and Trade Periodicals

January—December, 1917

Abbott school, Farmington, Maine

Howard Hippach memorial athletic field; views and plans. *Am Arch* 111:pl Mr 14 '17

Abercrombie and Fitch company, New York

Abercrombie & Fitch building, Madison avenue, New York. il plans *Am Arch* 112:33-6, pl 13-16 J1 11 '17

Ability tests

Absent treatment in efficiency tests; bringing the nerves of the battle line into the laboratory. J. Boyer. il *Sci Am* 117:209+ S 22 '17
Choosing employees by test; strength, speed, and control of arm, hand, and fingers. W. F. Kemble. il *Ind Management* 52:447-60 Ja '17

Abrasives

Abrasives from nephelin syenite; patent. Met & Chem Eng 17:353 S 15 '17
Aluminous abrasive; patent. Met & Chem Eng 17:439 O 1 '17
Selecting abrasives for specific uses. R. G. Williams. il *Ind Management* 52:461-8 Ja '17

See also Grinding and polishing; Pebbles

Absorbent cotton. See Cotton, Absorbent

Absorption

Control of absorption gasoline plants. P. M. Biddison. diags *Gas Age* 39:486-7 My 1 '17
Extraction of gasoline from natural gas by absorption methods. G. A. Burrell, P. M. Biddison and G. G. Oberfell. il diags U S Bur Mines Bul 120:1-66 '17

Abstracting

Technical literature research—a plea for better abstracting. G. Auchy. *Iron Age* 99:491 F 22 '17

Abutments. See Bridges—Abutments

Abyssinia

Industries and resources

Potash mine in Abyssinia. *Sci Am* 117:225 S 29 '17

Acacia emulsions

Contribution to the theory of emulsification based on pharmaceutical practice. L. Roon and R. E. Oesper. il *J Ind & Eng Chem* 9:158-9 F '17

Acceptances

Application of trade acceptances. K. R. Hooker. *Textile World* 52:1694-5 Mr 10 '17
Doing business under the trade acceptance plan. *Horseless Age* 40:24-5+ Ap 15 '17
Manufacturer and the bank. H. P. Willis. *Am Ind* 17:26-7 Je '17
Practical application of trade acceptance. *Elec R* 71:904-5 N 24 '17
Trade acceptance reform. R. H. Tingley. *Am Ind* 18:21-2 Ag '17
Trade acceptance; what it is and how it works. F. S. Evans. *Horseless Age* 41:36+ Ag 15 '17
Trade acceptances. *Textile World* 52:1186 F 3 '17
Trade acceptances. J. H. Tregoe. *Textile World* 52:2735+ My 12 '17

Accident law

State laws relating to reporting of accidents at quarries. W. W. Adams. U S Bur Mines Tech Pa 165:62-75 '16

See also Workmen's compensation

Accident prevention. See Safety devices and measures

Accidents

See also Building failures; Explosions; Lightning; Mine accidents; Railroads—Accidents; Safety devices and measures; Street railroads—Accidents

Accidents, Industrial

Accidents and accident prevention in machine building. L. W. Chaney and H. S. Hanna. 25 pls U S Bur Labor Statistics Bul 216:1-117 '17; Excerpts (Summary). *Iron Age* 100:1201 N 15 '17

Accidents at metallurgical works in the United States during the calendar year 1915. A. H. Fay. U S Bur Mines Tech Pa 164:1-19 '16

Accidents in industry. C. B. Auel. *Iron Age* 98:1282 D 7 '16

Accidents on construction; what they cost and how to prevent them. J. J. Rosenthal. il *Eng N* 78:483-6 Je 7 '17

After-care clinics for injured workmen. C. H. de la Chapelle. il *Am Ind* 17:14-18 Mr '17

Analysis of accidents to linemen and groundmen. *Elec W* 70:805 O 27 '17

Cause and prevention of industrial casualty. H. W. Mowery. il *Ind Management* 53:177-89 My '17

Engineering revision lessens accidents. L. W. Chaney. *Iron Age* 100:601-3 S 13 '17

Injuries producing diseases. C. C. Sherlock. *Power* 45:742 My 29 '17

Knowing what accidents cost. R. W. E. Sizer. *Factory* 18:182-4 F '17

Mechanical inefficiency a communal loss. F. R. Hutton. *Am Mach* 46:945-6 M 31 '17
Same (Regulation of power plants warranted). *Power* 45:774 Je 5 '17

Putting injured men back to work; methods employed by Norton co. E. B. Morgan. *Iron Tr R* 61:714-15 O 4 '17

Relation of industrial lighting to safety. C. E. Clewell. il *Elec W* 69:1153-6 Je 16 '17

Report of committee on analysis of accidents. *Am Gas Inst Pro* 11:pt 1, 69-74 '16

Table of causes of grinding wheel accidents. *Foundry* 45:24a Ja '17

Thoughtlessness in power plants. E. W. Miller. *Power* 46:127-8 J1 24 '17

See also Boiler explosions; Coal mines and mining—Accidents and explosions; Coke ovens—Accidents; Cranes, derricks, etc.—Accidents; Electricity, injuries from; Explosions; First aid in illness and injury; Mine accidents; Mining engineering—Safety measures; Occupations, Dangerous; Plumbing—Accidents; Quarries and quarrying—Accidents; Railroads—Accidents; Safety devices and measures; Workmen's compensation

Accountants

Accountants and the war. *J Account* 24:112-19 Ag '17

Accountants' services in wartime. *J Account* 23:364-8 My '17

Expert testimony by accountants. W. R. Tol-
leth. *J Account* 24:88-93 Ag '17

Training accountants for public service. E. A. Fitzpatrick. *J Account* 23:33-8 Ja '17

See also Accounting; Cost accounting

Registration

Registration of accountants. *J Account* 23:185-9 Mr '17

Accountants, Public

Comparative value of personal reputation and conferred degrees. C. H. Nau. J Account 24: 247-53 O '17

Duties of the junior accountant. W. B. Reynolds and F. W. Thornton. J Account 24:161-92, 289-92, 365-72 S-N '17

Public accountants and industrial preparedness. C. C. Waters. J Account 23:445-9 Je '17

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- Motor trucks deliver concrete for track elevation work. *il Eng & Contr* 48:80 Ji 25 '17
- Motor trucks spout concrete and carry dump buckets. *il Eng N* 79:616-17 S 27 '17
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- Double wall concrete cottage at Delmar, N. Y. C. B. Potter. *il diag plans Concrete* 10:30-1 Ja '17
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- House suggestion sketch, design and floor plan. *Concrete* 10:193 My '17
- House walls are precast. W. B. Heriot. *il Concrete* 10:217-18 Je '17

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- How a Connecticut contractor builds and sells concrete houses. *Il* Concrete 10:31, 2 F '17
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- One hundred concrete dwellings built as one contract job. *Il* plans Eng N 79:442-5 S 4 '17; Same. Coal Age 12:662-3 O 29 '17; Same cond. Eng & Contr 48:332, 4 O 24 '17
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- Concrete lining in shaft sinking. Coal Age 12: 737 O 27 '17
- Concreting a creek channel. C. W. Wardle. *Il* diag Eng & Min J 163:979-80 Je 2 '17
- Conveyor tunnel roofed while in use, stopping serious leakage. P. R. Prufert. diag Eng N 79:615-16 S 27 '17
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- Largest pit in the world used to submerge coal for storage. *Il* diag plan Eng Rec 75: 181-3 F 2 '17
- Lining a well with concrete. diag Concrete 11:24-5 Ji '17
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- Blow Ramonmixer; concrete mixer. *Il* Good Roads n 14:201 O 13 '17
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- Concrete mixer for mixing mortar. *Il* Eng & Contr 47:34 Ja 24 '17
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Carry end of chute along high form on block hung from cable. J. A. Cain, *il Eng Rec* 75:482 Mr 24 '17

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Concrete and fill placed quickly by car and incline. G. W. McAlpin, *il Eng N* 79:985-6 N 22 '17

Counterbalanced concrete chute. *diag Munic Eng* 53:79-80 Ag '17

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Placing ornamental concrete on steel frame; Pelham Parkway station, White Plains elevated R. R. H. L. Dlyn, *il Eng N* 77:24-6 Ja 4 '17

Points in tremie operation developed on Troy guide walls. *Eng N* 78:462 My 31 '17

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Revolving mast carries spout for concreting circular basins. C. F. Lambert, *il Eng Rec* 75:238 F 10 '17

Tap thin wall form with six-pound maul to tamp stiff concrete. H. S. Carpenter, *Eng Rec* 75:482 Mr 24 '17

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Cableway handles relining of Cleveland water basin. *il plan Eng N* 79:962-4 N 22 '17

Car elevator supplies concrete plant set on receiving dock. *il Eng N* 78:464 My 31 '17

Chute carried by derrick easily shifted in five minutes. A. H. Acher, *il Eng Rec* 74:722 D 9 '16

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Concrete mixer charged direct from industrial cars. *il Eng & Contr* 48:363 N 7 '17

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Concreting plant mounted on skids for building river wall. *il Eng & Contr* 48:241 S 19 '17

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Constructing 590 x 240 ft. concrete building at rate of one floor per week. *il diags Eng & Contr* 48:79-80 J1 25 '17

Construction methods for erection of 6-story reinforced concrete building. *il Eng & Contr* 48:75-6 J1 25 '17

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Light-wood spouting plant saves on small remote job. J. A. Hamilton, *il Eng Rec* 74:692 D 2 '16

Mixer boat has sand and gravel storage on decks. *plan Eng Rec* 74:752 D 16 '16

Mixing concrete dry at a central plant. H. F. LaBrecque, *il Eng N* 77:174-5 F 1 '17

Oval gravity-return track used to feed aggregate to mixer. W. R. Howard, *il Eng Rec* 75:519 Mr 31 '17

Place industrial track on top of gondolas for railroad concrete plant. *il Eng N* 78:559 Je 14 '17

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Quick shift tower for spouting system. *il Concrete* 10:130 Mr '17

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- Six months allowed to erect large concrete warehouse. il diags plan Eng N 79:267-8 Ag 9 '17
- Speeding up a building job. I. C. Wells. il Concrete 10:228-9 Je '17
- Stationary storage and side-gate cars to feed traveling tower concrete plant. il diag Eng N 78:415-16 My 24 '17
- Three-batch measuring cars supply mixer from gondolas. J. C. Foss, jr. il Eng N 79:40 J1 5 '17

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- Build concrete slab under busy railroad station to expedite subway construction. il diag plan Eng Rec 75:52-5 'Ja 13 '17
- Chart for designing reinforced slabs and beams. W. O. Sell. Concrete 11:75 S '17
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- Flat slab forms economically built; Krolik building, Detroit. diag Concrete 11:106-7 O '17
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Société de chimie industrielle

- Society of chemical industry formed in France. Met & Chem Eng 17:454 O 15 '17

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Society for electrical development

- Annual meeting. New York, May 8. Elec W 69:893 My 12 '17

Society for street cleaning and refuse disposal of the United States and Canada

- 2d annual convention. New York, Oct. 13-14. Munic J 41:646-8 N 23 '16

- Society news and papers published in the issue of the fourth week of each month of the Municipal journal

Society for the promotion of engineering education

- Official committee improving war service of engineering schools. Eng N 79:666 O 4 '17

- 25th annual meeting. Washington, D.C., July 6-7. Am Soc M E J 39:725-6 Ag '17

Society of arts and crafts, Detroit, Michigan

- Buildings of the Society of arts and crafts. il Am Arch 111:78-80, pl Ja 31 '17

Society of automotive engineers (formerly Society of automobile engineers)

- Aeronautic meeting, Feb. 9. Am Soc M E J 39:264-5 Mr '17

- Annual meeting. New York, Jan. 9-11. Am Mach 46:131 Ja 18 '17

- Automotive engineers' defense work. Am Mach 46:652 Ap 12 '17

- Best winter meeting. New York, 1917. J. E. Schipper. Automobile 36:167-71 Ja 18 '17

- Meeting. Washington, D.C., June 25-26. Am Soc M E J 39:726 Ag '17

- Motorcycle engineers join S. A. E. Automobile 37:4-5 J1 5 '17

- S. A. E. adds 36 standards in year. Automobile 35:1093-4 D 28 '16

- S. A. E. council plans for 1917. Automobile 36:309, 322 F 8 '17

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- Standards committee in record war session. Automobile 36:1199-1202 Je 28 '17

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Society of chemical industry

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- 25th general meeting. New York, Nov. 15-16; with abstracts of papers. Int Marine Eng 22:552-8 D '17

Society of railway financial officers

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- Study of sodium-lead compounds in liquid ammonia solution. F. H. Smyth. diags Am Chem Soc J 39:1299-1312 J1 '17

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- Action of sodium benzyl cyanide with *p*-tolylcinnamic ester. M. R. Daughters. Am Chem Soc J 39:1927-30 S '17

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- Heterogeneous equilibria between aqueous and metallic solutions. G. M. Smith and T. R. Ball. il diags Am Chem Soc J 39:179-218 F '17

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